TIMOTHY R. FLYNN

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EDUCATION

Master of Science: Computer Science
Worcester Polytechnic Institute, May 2012

Bachelor of Science: Robotics Engineering, Computer Science GPA: 3.74 / 4.0
Worcester Polytechnic Institute, May 2011

TECHNICAL BACKGROUND

- Programming Languages: C, C++, Python, Java, JavaScript, HTML/XML, Scheme, SQL, ANTLR
- Skills: Robotics, Control Engineering, Operating Systems, Relational Databases, Artificial Intelligence, Data Mining, Compiler Design, Computer Networks, Web Acceleration, Image Processing

WORK EXPERIENCE

ViaSat, Inc. – Quincy, MA May 2012 – Present
Software Engineer

- Worked in the Acceleration Research and Technology division with a team responsible for developing AcceleNet, a WAN optimization and acceleration tool
- Performed sustaining tasks to investigate and fix errors and faults in AcceleNet and related products, as well as developing enhancements to the software
- Designed and developed a management interface for a Linux port of AcceleNet, responsible for handling configuration, performance monitoring, high availability, and fault management
- Developed a parallel, non-recursive Make system which decreased build times from 2 hours to 10 minutes

ViaSat, Inc. – Quincy, MA May 2010 – August 2010, May 2011 – August 2011
Software Engineering Intern

- Developed a system to create, manage, and interact with 50 – 100 virtual machines to monitor and test ViaSat products
- Ported AcceleNet to the Android platform, improving browser-based Web speed on Android by 50-60% and reducing bandwidth by 15-25%

Worcester Polytechnic Institute – Worcester, MA March 2009 – May 2010
Senior Assistant

- Assisted professors in Introduction to Robotics and Unified Robotics courses
- Provided assistance to 80+ first- and second-year students with laboratory work, homework, and test preparation

PROJECT WORK

Major Qualifying Project (Four Course Equivalent) August 2010 – May 2011
Sabertooth: A High Mobility Quadruped Robot Platform

- Team of five developed a 300-pound quadruped robot capable of interacting with varying terrains
- Implemented a computer vision and planning systems for the robot to autonomously navigate its environment
- Designed and developed a Web-based control center for monitoring and manipulating the robot

Interactive Qualifying Project (Three Course Equivalent) March 2010 – May 2010
Emergency Communication Effectiveness for Deaf and Hard of Hearing in Victoria, Australia

- Completed in a team of four students under the sponsorship of the Victorian Deaf Society in Melbourne
- Identified and evaluated problems with Victoria's emergency communications for the deaf and hard of hearing
- The team proposed revisions to make information during emergency situations more accessible for all people

Robotics Innovation Conference and Competition (First Place) November 2009
Autonomous Shopping Cart (ASC) – Programming Lead

- Team of two designed and constructed the ASC to assist disabled patrons in shopping centers
- Developed a system allowing the cart to safely and smoothly follow the user through a store
- An infrared beacon on the user was located with two Nintendo Wii Remotes, and an on-board PC interpreted this data and directed the cart to respond accordingly

AWARDS AND ACHIEVEMENTS

Tau Beta Pi Engineering Honor Society
NEWMAC Track & Field Academic All-Conference Team (Two-time recipient)
Dean's List (Five-time recipient)
Eagle Scout